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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/935,050	08/23/2001	Yoav Blatt	BLATT-2	7772
	90 08/05/2004		EXAMINER PRATT. HELEN F	
BROWDY AN 624 Ninth Stree	ND NEIMARK, P.L.L.C t. N.W.			
Washington, DC 20001			ART UNIT	PAPER NUMBER
			1761	-
			DATE MAILED: 08/05/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/935,050	BLATT ET AL.	
Office Action Summary	Examiner	Art Unit	
	Helen F. Pratt	1761	
The MAILING DATE of this communication Period for Reply		with the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a con. The a reply within the statutory minimum of the period will apply and will expire SIX (6) MC statute. Cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this com	munication.
Status			
1) Responsive to communication(s) filed on	14 Juno 2004		
↑ \□	This action is non-final.		
3) Since this application is in condition for all	OWANCE except for formal materials	ttors proposition as to the	., .
closed in accordance with the practice und	der <i>Ex parte Quavle</i> 1935 C.I	ners, prosecution as to the m	nerits is
Disposition of Claims		D. 11, 400 O.G. 210.	
4) Claim(s) <u>1-25</u> is/are pending in the applica			
4a) Of the above claim(s) is/are with	ndrawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b) Objected to	hy the Evaminar	
Applicant may not request that any objection to	the drawing(s) he held in abevar	nce Sec 27 CED 4 95/c)	
Replacement drawing sheet(s) including the cor	rrection is required if the drawing	(c) is shipsted to Co. 07 OFD	4 404 ()
11) The oath or declaration is objected to by the	Examiner Note the attached	d Office Action of fame DTO	1.121(d).
·	- Examiner. Note the attached	d Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) All b) Some * c) None of:			
1 Certified copies of the priority docum	ents have been received.		
2. Certified copies of the priority docum	ents have been received in A	pplication No	
3. Copies of the certified copies of the p	priority documents have been	received in this National Sta	ae
application from the International Bur	eau (PCT Rule 17.2(a)).		J
* See the attached detailed Office action for a	list of the certified copies not	received.	
attachment(s)			
) Notice of References Cited (PTO-892)	Λ.□		
) Motice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	ummary (PTO-413))/Mail Date	
i) 🔀 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	08) 5) Notice of In	formal Patent Application (PTO-152	?)
Patent and Trademati Off	6) Other:	_·	
Patent and Trademark Office OL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No /Mail Date 20	0040704

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 8-11, 13, 14, 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (3,565,559) in view of Silbiger et al. GB 1192171 and Kantor et al. (4,895,725) and Patel et al. (6,569,463).

Sato et al. disclose a method of making a microencapsulated composition by forming an aqueous emulsion, adding a surface active agent, dispersing, then adding a gelable hydrophilic substance (alginate) forming droplets, adding multivalent ions to cause gelation adding a electrolyte, washing, and dehydrating the microcapsules, separating and drying the capsules (col. 2, lines 25-73, col. 3, lines 15-28). The lipophilic compound is seen to have been reduced in size by the emulsification process as in step (i). (col. 3, lines 34-50). The alginate is combined with the emulsion containing the oil and surfactant (col. 3, lines 50-55, 65-68). The lipophilic compound can be vitamin A (claim 6). Claims 1, 4 and 6 differ from the reference in the step of adding dropwise the second composition to a solution containing calcium to obtain beadlets. However, Silbiger et al. GB 1192171 discloses a method of making beads from alginate by dropping the alginate solution into a solution which will coagulate the alginate and provide a hard shell (abstract and page 1, lines 8-18). Claim 1 further

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differs from the reference in rinsing the beadlets in acid solution and drying. Kantor et al. discloses atomizing an emulsion into an acidic solution. Drying is disclosed by Sato et al. (col. 6, lines 30-34). Patel et al. disclose that it is known to coat a beadlet (col. 41, lines 55-65, col. 42, lines 14-36, col. 52, lines 44-55 and col. 60, lines 30-33, and 44-49). Therefore, it would have been obvious to reduce the size of a lipophilic compound in the presence of a surfactant when combining it with an alginate material, because the primary reference is also combining lipophilic compounds with alginate, and it would have been obvious to rinse the beadlets with an acid as disclosed by Kantor and to further coat as disclosed by Patel et al.

Claims 2 and 3 and 15-18 further require a particular particle size. Sato et al. disclose particle sizes of from 0.5 to 10,000 microns (col. 6, lines 35-44). Therefore, it would have been obvious make microcapsules of the claimed size as disclosed by Sato et al.

Claim 9 requires particular acids. Kantor discloses acids as above. Kantor et al. disclose acids such as ascorbic and lactic acid as claimed (col. 6, lines 39-44). Therefore, it would have been obvious to use acids, which are food safe in the process of Sato et al.

Claim 10 requires particular coating materials and claim 11 hydroxpropylcellulose. No difference is seen in the use of hydroxypropylcellulose and a different derivative of cellulose, and that of claim 11 at this time since they are both used for coating (col. 46, lines 5-14, and lines 35-45). Therefore, it would have been obvious to coat with known celluloses.

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The limitations of claim 13 –14, 20, 21 have been discussed above and are obvious for those reasons.

Claim 22 requires that the composition is tablet grade. However, it would have been obvious to use ingredients to meet particular specifications.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over the above combined references as applied to the above claims and further in view of Francois et al. (6,555,544).

Water can be in the composition as in claim 12 for size reduction as in step I as disclosed in the reference to Francois et al. (col. 8, lines 44-50). Therefore, it would have been obvious to use water in the size reduction step.

Claims 5, 7, 19, 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over the above combined references as applied to the above claims, and further in view of Lim et al. (4,389,419).

Lim et al. disclose a process of encapsulating oils and oil soluble substances in microcapsules by forming an emulsion of alkali metal alginate and a filler such as a polysaccharide and an oleophilic substance such as a vitamin, then treating with a solution containing calcium to form beadlets which are washed and dried (abstract and col. 1, lines 34-64). Claim 5 further requires that a filler be added to stage 1 and claim 7 that it is added at stage ii. Lim et al. disclose that a polysaccharide such as dextrin can be added with the alginate or carboxymethyl cellulose, starches which would have been at stage 2. (col. 2, lines 30-49). Nothing new is seen in adding yet

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another ingredient to be ground as in stage 1 to achieve the same particle size.

Therefore, it would have been obvious to add a filler at stage 1 or 2.

Claim 19 further requires particular amounts of lipophilic compound in the mixture. Lim et al. disclose the use of from 1-10% vitamin or oil (col. 2, lines 58-63) and Francois et al. disclose the use of a palmitate anti-psychotic agent which is about 3% fat (col. 8, lines 60-70). Therefore, it would have been obvious to use a lipophilic compound in the claimed amounts.

Claim 23 is to using the lipophilic compounds in food stuff. Lim et al. disclose that their encapsulated vitamins can be used in a foodstuff. Therefore, it would have been obvious to add the composition of the combined references to a foodstuff for the known function of adding at least fat to the foodstuff.

Claim 24 further requires masking the flavor or smell of the fat compound by encapsulating as claimed. However, as the claimed composition has been shown as above, it is obvious that the flavor would have been inherently masked.

Claim 25 further requires making an emulsion of water and the lipophilic compound. Sato et al. disclose making an emulsion of vitamin A in an aqueous emulsion (abstract) and col. 2, lines 24-35). The active chemical substance of the reference (vit. A) is seen to the required lipophilic compound of the reference. The further limitations of the claim have been disclosed above and are obvious for those reasons.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen F. Pratt whose telephone number is 571-272-1404. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Milton Cano, can be reached on 571-272-1398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hp 8-2-04

HELEN PRATT
PRIMARY EXAMINER